

Naoto Kikuchi

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59
papers

1,060
citations

18
h-index

31
g-index

61
ext. papers

1,142
ext. citations

3.7
avg, IF

4.03
L-index

#	Paper	IF	Citations
59	Working hypothesis to explore novel wide band gap electrically conducting amorphous oxides and examples. <i>Journal of Non-Crystalline Solids</i> , 1996 , 198-200, 165-169	3.9	172
58	Electrical and structural properties of Ni-doped Cu ₂ O films prepared by pulsed laser deposition. <i>Thin Solid Films</i> , 2005 , 486, 33-37	2.2	75
57	Electrical and mechanical properties of SnO ₂ :Nb films for touch screens. <i>Vacuum</i> , 2002 , 66, 365-371	3.7	54
56	Preparation of transparent CuCrO ₂ :Mg/ZnO p-n junctions by pulsed laser deposition. <i>Thin Solid Films</i> , 2006 , 515, 2415-2418	2.2	53
55	Amorphous transparent electroconductor 2CdO/GeO ₂ : Conversion of amorphous insulating cadmium germanate by ion implantation. <i>Applied Physics Letters</i> , 1995 , 67, 2663-2665	3.4	38
54	Preparation of transparent conductive TiO ₂ :Nb thin films by pulsed laser deposition. <i>Applied Surface Science</i> , 2009 , 255, 9695-9698	6.7	34
53	Optical properties of SrMoO ₃ thin film. <i>Journal of Applied Physics</i> , 2000 , 87, 4617-4619	2.5	34
52	Influence of oxygen pressure on the structural, electrical and optical properties of VO ₂ thin films deposited on ZnO/glass substrates by pulsed laser deposition. <i>Thin Solid Films</i> , 2010 , 518, 7441-7444	2.2	33
51	Elastic and plastic energies in sputtered multilayered Ti _{1-x} Al _x N films estimated by nanoindentation. <i>Surface and Coatings Technology</i> , 2000 , 126, 131-135	4.4	32
50	Fabrication of ZnO and CuCrO ₂ :Mg thin films by pulsed laser deposition with in situ laser annealing and its application to oxide diodes. <i>Thin Solid Films</i> , 2008 , 516, 5941-5947	2.2	31
49	Phonon scattering in electron transport phenomena of ITO films. <i>Vacuum</i> , 2000 , 59, 492-499	3.7	31
48	Fabrication of transparent CuCrO ₂ :Mg/ZnO p-n junctions prepared by pulsed laser deposition on glass substrate. <i>Vacuum</i> , 2008 , 83, 614-617	3.7	29
47	Carrier generation in a p-type oxide semiconductor: Sn ₂ (Nb _{2-x} Tax)O ₇ . <i>Physical Review Materials</i> , 2017 , 1,	3.2	26
46	Disappearance of Localized Valence Band Maximum of Ternary Tin Oxide with Pyrochlore Structure, Sn ₂ Nb ₂ O ₇ . <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9480-9488	3.8	23
45	Carrier Generation in p-Type Wide-Gap Oxide: SnNb ₂ O ₆ Foordite. <i>Chemistry of Materials</i> , 2018 , 30, 8221-8225	3.8	22
44	Growth of b-axis oriented VO ₂ thin films on glass substrates using ZnO buffer layer. <i>Applied Surface Science</i> , 2010 , 256, 6834-6837	6.7	21
43	Mechanisms of carrier generation and transport in Ni-doped Cu ₂ O. <i>Vacuum</i> , 2006 , 80, 756-760	3.7	20

42	Preparation of TiC films by alternate deposition of Ti and C layers using a dual magnetron sputtering source. <i>Surface and Coatings Technology</i> , 1999 , 120-121, 378-382	4.4	19
41	Ion fraction and energy distribution of Ti flux incident to substrate surface in RF-plasma enhanced magnetron sputtering. <i>Vacuum</i> , 2000 , 59, 586-593	3.7	18
40	Effects of Ar pressure on ion flux energy distribution and ion fraction in r.f.-plasma-assisted magnetron sputtering. <i>Surface and Coatings Technology</i> , 1999 , 120-121, 189-193	4.4	18
39	Growth of carbon with vertically aligned nanoscale flake structure in capacitively coupled rf glow discharge. <i>Vacuum</i> , 2008 , 82, 754-759	3.7	16
38	Imidized organic thin films deposited on glass substrates. <i>Thin Solid Films</i> , 2001 , 392, 254-257	2.2	16
37	Improvement of the hole mobility of SnO epitaxial films grown by pulsed laser deposition. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6332-6336	7.1	14
36	Super-hydrophilic and solar-heat-reflective coatings for smart windows. <i>Thin Solid Films</i> , 2013 , 532, 147-150	1.5	14
35	Transparent, Conducting, Amorphous Oxides: Effect of Chemical Composition on Electrical and Optical Properties of Cadmium Germanates. <i>Journal of the American Ceramic Society</i> , 1997 , 80, 22-26	3.8	14
34	Carrier Generation in Wide-Gap Conductor, Zinc Antimonate. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2793-2797	3.8	14
33	Effects of excess oxygen introduced during sputter deposition on carrier mobility in as-deposited and postannealed indium oxide films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 1636-1641	2.9	14
32	Synthesis and Solid-State Polymerization of α -(1,3-Butadiynyl) Substituted 1-Alkanol and Alkanoic Acid. <i>Bulletin of the Chemical Society of Japan</i> , 1994 , 67, 455-461	5.1	13
31	Tailoring the Hole Mobility in SnO Films by Modulating the Growth Thermodynamics and Kinetics. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1755-1760	3.8	12
30	Microstructure of orientation controlled VO ₂ thin films via ZnO buffer. <i>Thin Solid Films</i> , 2013 , 529, 119-122	1.2	11
29	Interface stress induced hardness enhancement and superelasticity in polytetrafluoroethylene/metal multilayer thin films. <i>Thin Solid Films</i> , 2011 , 520, 404-412	2.2	11
28	Fabrication of (Cu, C)Ba ₂ CuO _y superconducting thin film by RF magnetron sputtering. <i>Journal of Physics: Conference Series</i> , 2006 , 43, 289-292	0.3	11
27	Effects of coil dc potential on ion energy distribution measured by an energy-resolved mass spectrometer in ionized physical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999 , 17, 2360-2363	2.9	11
26	Factors Affecting the Solid-State Polymerization of 1,4-Bis(1,3-octadecadiynyl)benzene to a Polydiacetylene. <i>Macromolecules</i> , 1995 , 28, 5363-5369	5.5	11
25	Preparation of Cordierite Ceramics by the Sol-Gel Process and Their Properties. <i>Journal of the Ceramic Society of Japan</i> , 1993 , 101, 824-829		11

24	New technique for coprecipitation of organic dye with polymer under high vacuum. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1994 , 12, 876-878	2.9	10
23	Preparation of amorphous Si _{1-x} C _x (0 ≤ x) films by alternate deposition of Si and C thin layers using a dual magnetron sputtering source. <i>Surface and Coatings Technology</i> , 2002 , 149, 76-81	4.4	8
22	Free carrier absorption in highly conducting amorphous oxides. <i>Journal of Non-Crystalline Solids</i> , 1998 , 227-230, 513-516	3.9	6
21	Deposition of superconducting (Cu, C)BaD films by pulsed laser deposition at moderate temperature. <i>Superconductor Science and Technology</i> , 2007 , 20, S461-S466	3.1	6
20	Transparent conducting oxide, InSbO ₄ with random rutile structure. <i>Vacuum</i> , 2002 , 65, 81-84	3.7	6
19	High-Resolution Solid-State ¹³ C NMR Studies on Molecular Motions and Solid-State Polymerization of Octatetraynes. <i>Bulletin of the Chemical Society of Japan</i> , 1995 , 68, 791-802	5.1	6
18	Epitaxial growth of (Cu,C)Ba ₂ Ca _{n-1} Cu _n O _x (n=1) film deposited on SrTiO ₃ substrate by r.f. sputtering. <i>Vacuum</i> , 2004 , 74, 585-590	3.7	5
17	Polyimide-based organic thin films prepared by rf magnetron sputtering. <i>Thin Solid Films</i> , 2003 , 433, 274-276	2.2	5
16	Electrical and optical properties of wide-gap n-type Sn ₂ Ta ₂ O ₇ films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019 , 37, 031501	2.9	4
15	A Polydiacetylene From an Asymmetrically-Substituted Octatetrayne Compound for Nonlinear Optics. <i>Molecular Crystals and Liquid Crystals</i> , 1994 , 247, 99-109		4
14	Bipolar Semiconducting Properties in SnWO_3 Based on the Characteristic Defect Structure. <i>Inorganic Chemistry</i> , 2021 , 60, 8035-8041	5.1	4
13	Preparation of p-type semiconductor perovskite La _{1-x} Sr _x CoO ₃ films and their p _n heterostructure devices. <i>Applied Surface Science</i> , 2017 , 422, 869-872	6.7	3
12	Synthesis of Diacetylene-Substituted Polydiacetylenes with Alkoxy-carbonylurethane Substituents and Their Optical Properties. <i>Molecular Crystals and Liquid Crystals</i> , 1994 , 255, 103-112		3
11	Site-Selective Oxygen Vacancy Formation Derived from the Characteristic Crystal Structures of Sn ₂ Nb Complex Oxides. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 17117-17124	3.8	3
10	Effect of Crystal Structure on Hole Carrier Generation in Wide-gap P-type Tin-Niobate. <i>MRS Advances</i> , 2019 , 4, 27-32	0.7	3
9	Mechanisms of the structural modification of Ti films by pulsed direct current and inductively coupled plasma-assisted pulsed direct current sputtering. <i>Thin Solid Films</i> , 2017 , 634, 73-84	2.2	2
8	Preparation of Delafossite CuYO ₂ by Metal-citric Acid Complex Decomposition Method. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1166, 13		2
7	Pulsed laser deposition synthesis of superconducting (Cu,C)BaD thin films. <i>Vacuum</i> , 2008 , 83, 531-533	3.7	2

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| 6 | Anomalous Association of 3,3'-Diethyloxadicarbocyanine Iodide in Saturated Solutions or Acetone and Water. <i>Chemistry Letters</i> , 1994 , 23, 153-156 | 1.7 | 1 |
| 5 | Elaboration of near-valence band defect states leading deterioration of ambipolar operation in SnO thin-film transistors. <i>Nano Select</i> , | 3.1 | 1 |
| 4 | Effect of intentional chemical doping on crystallographic and electric properties of the pyrochlore Bi ₂ Sn ₂ O ₇ . <i>Materials and Design</i> , 2022 , 216, 110549 | 8.1 | 0 |
| 3 | High Efficiency-Carrier-Generation in Li ⁺ -Implanted MgIn ₂ O ₄ Thin Films. <i>Journal of the Ceramic Society of Japan</i> , 1997 , 105, 275-277 | | |
| 2 | Plastic and Elastic Behavior of Sputtered Bilayered Films by Nanoindentation. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 594, 513 | | |
| 1 | Condensed States and Optical Properties of the Densely Dissolved Organic Compounds in Polymer Matrices by Coprecipitation. <i>Molecular Crystals and Liquid Crystals</i> , 1994 , 252, 185-193 | | |